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L10: Entry 6 of 7 File: DWPI Jul 21, 2002

DERWENT-ACC-NO: 2002-068191
DERWENT-WEEK: 200329
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TITLE: Solid electrolyte battery for electronic apparatus, seals negative electrode and electrolyte within positive electrode by joining collector exposed portion

INVENTOR: ENDO, T; HATAZAWA, T ; KEZUKA, K

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SONY CORP	SONY
ENDO T	ENDOI
HATAZAWA T	HATAI
KEZUKA K	KEZUI

PRIORITY-DATA: 2000JP-0072513 (March 10, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
TW 496005 A	July 21, 2002		000	H01M002/08
EP 1132988 A2	September 12, 2001	E	023	H01M010/40
JP 2001256953 A	September 21, 2001		013	H01M002/26
NO 200101209 A	September 11, 2001		000	H01M006/18
US 20020009636 A1	January 24, 2002		000	H01M004/00
CN 1319913 A	October 31, 2001		000	H01M010/38
KR 2001091959 A	October 23, 2001		000	H01M006/18

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
TW 496005A	March 2, 2001	2001TW-0104871	
EP 1132988A2	March 2, 2001	2001EP-0105173	
JP2001256953A	March 10, 2000	2000JP-0072513	
NO 200101209A	March 9, 2001	2001NO-0001209	
US20020009636A1	March 9, 2001	2001US-0803685	
CN 1319913A	March 9, 2001	2001CN-0111304	
KR2001091959A	March 10, 2001	2001KR-0012421	

INT-CL (IPC): H01 M 2/02; H01 M 2/08; H01 M 2/26; H01 M 2/30; H01 M 4/00; H01 M 4/02; H01 M 4/04; H01 M 4/40; H01 M 4/58 ; H01 M 6/18; H01 M 10/04; H01 M 10/36; H01 M 10/38; H01 M 10/40

ABSTRACTED-PUB-NO: EP 1132988A
BASIC-ABSTRACT:

NOVELTY - The positive and negative electrodes (2,3) consist of collectors (2a,3a) and active metal layers (2b,3b), respectively. The metal layer (2b) opposes each of the metal layer (3b) through a solid electrolyte (6). The electrode (3) is sealed in the electrode (2) by joining collector exposed portion (2c) of the electrode (2) to each other.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the solid electrolyte battery production method.

USE - For electronic apparatuses.

ADVANTAGE - Since the negative electrode and electrolyte are sealed within the positive electrode which serves as a container, another container is not required, so that a thin battery with reduced size and weight is produced. The high energy density is also realized with efficient charging/discharging characteristics.

DESCRIPTION OF DRAWING(S) - The figure shows a sectional view of the solid electrolyte battery.

Electrodes 2,3

Collectors 2a,3a

Active metal layers 2b,3b

Collector exposed portion 2c

Solid electrolyte 6
ABSTRACTED-PUB-NO:

US20020009636A
EQUIVALENT-ABSTRACTS:

NOVELTY - The positive and negative electrodes (2,3) consist of collectors (2a,3a) and active metal layers (2b,3b), respectively. The metal layer (2b) opposes each of the metal layer (3b) through a solid electrolyte (6). The electrode (3) is sealed in the electrode (2) by joining collector exposed portion (2c) of the electrode (2) to each other.

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Electrodes 2,3

Collectors 2a,3a

Active metal layers 2b,3b

Collector exposed portion 2c

Solid electrolyte 6

CHOSEN-DRAWING: Dwg.2/11

TITLE-TERMS: SOLID ELECTROLYTIC BATTERY ELECTRONIC APPARATUS SEAL NEGATIVE ELECTRODE ELECTROLYTIC POSITIVE ELECTRODE JOIN COLLECT EXPOSE PORTION

DERWENT-CLASS: X16

EPI-CODES: X16-B01F1; X16-F01A;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N2002-050496